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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/497,520	02/04/2000	Hyun-doo Shin	Q53233	7584	
	590 08/13/2003				
Sughrue, Mion, Zinn, Macpeak & Seas, PLLC 2100 Pennsyvania Avenue N.W.			EXAMINER		
	C 20037-3202		GRANT II, JEROME		
			ART UNIT	PAPER NUMBER	
			2626	5	
			DATE MAILED: 08/13/2003	/	

Please find below and/or attached an Office communication concerning this application or proceeding.

Of.

	Application No.	Applicant(s)	
o Office Antique O	09/497,520	SHIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jerome Grant II	2626	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence	address
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties of the period for reply within the set or extended period for reply will, by some any experience of the provided period for reply will, by some any experience of the provided period for reply will, by some any experience of the provided period for reply will, by some any experience of the provided period for reply will, by some provided period for reply will be provided pe	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thir openiod will apply and will expire SIX (6) MON statute. cause the application to become Al	reply be timely filed irty (30) days will be considered tir NTHS from the mailing date of this BANDONED (35 U.S.C. 8 133)	is communication
1) Responsive to communication(s) filed on	_		
	This action is non-final.		
3) Since this application is in condition for al		tters prosecution as t	the morito in
closed in accordance with the practice un visposition of Claims	nder <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	, are ments is
4) Claim(s) <u>1-22,24-27 and 29-49</u> is/are pend	ding in the application.		
4a) Of the above claim(s) is/are with	• ''		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1,2,19,22,38,39,44 and 45</u> is/are	rejected.		
7) Claim(s) <u>3-18,24-27,29-37,40-43 and 46-4</u>			
8) Claim(s) are subject to restriction ar	<u>-</u>		
pplication Papers	₁ 3 e 110		
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a) □ a	accepted or b) objected to by the	he Examiner.	
Applicant may not request that any objection t	to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a	
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in	in reply to this Office action.		
12) The oath or declaration is objected to by the	e Examiner.		
riority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. &	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docum	nents have been received.		
2. Certified copies of the priority docum		oplication No.	
3. Copies of the certified copies of the papplication from the International	priority documents have been I Bureau (PCT Rule 17.2(a)).	received in this Nationa	al Stage
* See the attached detailed Office action for a	·		
14) Acknowledgment is made of a claim for dome			al application).
a) The translation of the foreign language15) Acknowledgment is made of a claim for dom			JEMAGE ASA
tachment(s)	ловью рионку инаег 35 U.S.C.	ყვ 1∠∪ and/or 121.	JEROME CHAN' PRIMARY EXAMI
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No() 5) Notice of Ir	Summary (PTO-413) Paper Nonformal Patent Application (P	Vo(s)
atent and Trademark Office -326 (Rev. 04-01) Office	e Action Summary	Part of Paper No. 9	

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Detailed Action

- 1. Claims 23 and 28 have been canceled by a pre-liminary amendment.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States. Claims 1, 2, 19, 22, 38, 39, 44 and 45 are rejected under 35 U.S.C. 102(b) as being

anticipated by Young.

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With respect to claim 1, Young teaches a color image processing method comprising the steps of:

sorting image pixels according to a color distance (d), according to col. 9, lines 30-35, between image pixels P(n) and a central pixel C(r); grouping the sorted pixels into groups in which a difference intragroup color distance is minimum (see col. 9, lines 44-46) and a difference in intergroup color difference is maximum (see col. 9, lines 40-43); and performing filtering by replacing a central pixel C(r) value with a predetermined pixel value C(j) determined by pixel values of pixels in the groups, see col. 9, lines 46-57.

With respect to claim 2, Young teaches a circular window defined by (HSV) coordinates, see figures 6a and 6b.

With respect to claim 19, Young teaches a color image priocessing method comprising the steps of:

receiving a color image frame (18) and segmenting the same into a plurality of color images (RGB values; sorting image pixels according to a color distance (d), according to col. 9, lines 30-35, between image pixels P(n) and a central pixel C(r); grouping the sorted pixels into groups in which a difference intragroup color distance is minimum (see col. 9, lines 44-46) and a difference in intergroup color difference is maximum (see col. 9, lines 40-43); and performing filtering by

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replacing a central pixel C(r) value with a predetermined pixel value C(j) determined by pixel values of pixels in the groups, see col. 9, lines 46-57.

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With respect to claim 22, Young teaches a circular window defined by (HSV) coordinates. see figures 6a and 6b.

With respect to claim 38, Young teaches defining a circular window (see figures 6a and 6b) having a predetermined size with an input color, selecting pixels having a color vector C(i) similar to that of a central pixel C(r) within the window and defining the selected pixels as a group; and performing filtering of blurring (using the Shadow Theorem, explained at col. 11, lines 11-19.

With respect to claim 39, Young teaches a computer readable medium (25) having program codes executable by a computer to perform a color image processing method, comprising the steps of: receiving a color image frame (18) and segmenting the same into a plurality of color images (RGB values; sorting image pixels according to a color distance (d), according to col. 9. lines 30-35, between image pixels P(n) and a central pixel C(r); grouping the sorted pixels into groups in which a difference intragroup color distance is minimum (see col. 9, lines 44-46) and a difference in intergroup color difference is maximum (see col. 9, lines 40-43); and performing

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filtering by replacing a central pixel C(r) value with a predetermined pixel value C(j) determined

by pixel values of pixels in the groups, see col. 9, lines 46-57.

With respect to claim 44, Young teaches a color image frame, obtained from a frame grabber

18, and segmenting the images (rgb values).

With respect to claim 45, Young teaches a color image processing method, comprising:

sorting means 14 and 15 as shown in figure 2, for setting a window of a predetermined size within

an input color image and sorting image pixels in he window according to a color distance between

the image pixels P(n) and a central pixel C(r); grouping means 15 for grouping the sorted pixels

into groups in which a difference in an intragroup color distance is minimum and a difference in an

intergroup color difference maximum; and filtering means via the ordered file (see col. 9, lines 46-

57).

Claims Objected Containing Allowable Matter

3. Claims 3-18, 24-27, 29-37, 40-43 and 46-49 are objected to as being dependent upon a

rejected base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 305-4391. The examiner can normally be reached on Mon. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams, can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-3900.

J. Grant II

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